

The Tapestry of Science

I N T E R D I S C I P L I N A R Y R E S E A R C H

TRANSLATIONAL RESEARCH

STATISTICS

BIOLOGY

CLINICAL RESEARCH

MATHEMATICS

BASIC RESEARCH

CHEMISTRY

ENGINEERING

INFORMATICS

COMPUTER SCIENCE

PHYSICS

2006 Summer Research Program

Student Handbook



*Office of Intramural Training and Education
National Institutes of Health
Department of Health and Human Services*

Summer E-mail List

The Summer Interns E-mail List was created to promote a sense of community among student researchers and to provide a forum for the exchange of educational, scientific, and employment information during the months you spend at the NIH.

How do I subscribe?

1. Compose an e-mail addressed to *listserv@list.nih.gov*
2. Leave the subject line blank
3. In the body of your message type:
 Subscribe Summer-Interns
 Your First Name Your Last Name

How do I post a notice?

You can post a notice, announcement, scientific request, or employment question by sending an e-mail to *summer-interns@list.nih.gov*.



**National Institutes
of Health**

Office of
Intramural Training
and Education

**Office of
Intramural Research**

May 2006

A Message to All Students in Summer Research Programs:

On behalf of all members of our scientific community, I would like to take this opportunity to welcome you to the National Institutes of Health (NIH). It is my hope that your experience with us this summer will enhance your knowledge and understanding of the world of biomedical research and contribute to the development of your academic goals. Over the years, this program has provided the stimulus for many individuals like you to pursue careers in the biomedical sciences.

While you will undoubtedly be spending most of your time in the laboratory this summer, I encourage you to take advantage of the many special opportunities we have to offer as well. The NIH Office of Intramural Training and Education has planned several activities designed to enrich your summer experience. One of these activities, the Summer Lecture Series, enables you to hear leading NIH scientists discuss their current research. The theme of this year's series is *The Tapestry of Science: Interdisciplinary Research*. This theme reflects our belief that, in the twenty-first century, important biomedical problems will be solved by weaving together the knowledge and skills of engineers, mathematicians, chemists, pharmaceutical scientists, physicists, experts in computer science and bioinformatics, and biologists. Working in teams, investigators with diverse scientific, educational, and cultural backgrounds represent the key to the progress on which our Nation's health depends. The summer lectures are very popular, so be sure to arrive at the amphitheater early.

Another special event, Poster Day 2006, takes place toward the end of the summer session on Thursday, August 3rd. It provides an opportunity for you to present your research findings to the NIH scientific community. I encourage all summer students to be part of this NIH-wide event, which celebrates the work of over 400 students each year. You will find instructions for creating a poster presentation and a description of registration procedures in this handbook.

We expect you to complete courses on laboratory safety and radiation safety that teach valuable skills and ensure that your summer with us will be safe. You are also encouraged to participate in scheduled workshops and lunchtime talks that will assist you with planning your career.

Congratulations on your selection for an internship and best wishes for a rewarding summer at the NIH.

Sincerely yours,

A handwritten signature in black ink that reads "Michael M. Gottesman". The signature is fluid and cursive, with the first name "Michael" and last name "Gottesman" clearly legible.

Michael M. Gottesman, M.D.
Deputy Director for Intramural Research
National Institutes of Health

2 Center Drive MSC 0240
Bethesda, MD 20892-0240

www.training.nih.gov
Phone: (800)445-8283
Fax: (301)402-0483

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The Tapestry of Science: Interdisciplinary Research

June 13 **Frontiers in Fluorescence Microscopy**

Jennifer A. Lippincott-Schwartz, Ph.D.

Head, Section on Organelle Biology

Cell Biology and Metabolism Branch

National Institute of Child Health and Human Development

June 20 **Recombinant Immunotoxins for the Treatment of Hematologic Malignancies**

Robert J. Kreitman, M.D.

Head, Clinical Immunotherapy Section

Laboratory of Molecular Biology

National Cancer Institute

June 27 **Vaccines for Global Respiratory Threats: SARS and Pandemic Influenza**

Kanta Subbarao, M.D., M.P.H.

Senior Investigator, Laboratory of Infectious Diseases

National Institute of Allergy and Infectious Diseases

July 11 **The Making of Skeletons**

Yingzi Yang, Ph.D.

Head, Developmental Genetics Section

Genetic Disease Research Branch

National Human Genome Research Institute

July 18 **Charting Cellular Landscapes with 3D Electron Microscopy**

Sriram Subramaniam, Ph.D.

Head, Biophysics Section

Laboratory of Cell Biology

National Cancer Institute

July 25 **Meet the Neuregulins: A Family of Factors Implicated in Neural Development, Plasticity, and Disease**

Andres Buonanno, Ph.D.

Head, Section on Molecular Neurobiology

National Institute of Child Health and Human Development

All lectures
will be held from
12:00 noon to 1:00 p.m.
on Tuesdays in
Lipsett Amphitheater,
Building 10.

Sign language
interpretation
is available
upon request.
Individuals who
require this or other
accommodations
should call the NIH
Office of Intramural
Training and Education
at (301) 496-2427.

NIH Library Orientation Tours

The mission of the NIH Library is to support the biomedical and behavioral research needs of the NIH community with a comprehensive range of scientific, medical, and administrative information and support services.

The NIH Library in Building 10, located on the first floor near the South Entrance, will conduct weekly NIH Library Orientation Tours for summer students on Wednesdays from May 24 through July 12, 2006. Each one-hour orientation starts at 2:00 p.m. at the Information Desk. No registration is required.

NIH Library Orientation Tours for large groups and special arrangements are available upon request: nihlibrary@nih.gov or 301-496-1080.

The NIH Library Orientation Tours include:

- Overview of NIH Library resources and services
- Overview of NIH Library website
- Introduction to PubMed®, Web of Science®, Scopus® and other electronic databases
- Overview of the NIH Library On-line Catalog
- Access to On-line Journals, On-line Books and Internet Resources
- NIH Library Document Delivery
- NIH Library Resource Training

For more information, please visit the NIH Library website: <http://nihlibrary.nih.gov>

Test-taking Strategies – Preparing for the MCAT/Preparing for the GRE

If you are planning to take the MCAT in August or even next April, you will want to come to the two-part series "Preparing for the MCAT." If you are planning to take the GRE in the next year, you should plan to attend the two-part series "Preparing for the GRE." All sessions will be presented by Dr. William J. Higgins, Associate Professor of Biology at the University of Maryland. Dr. Higgins has taught courses populated by premedical students for 30 years, won many teaching awards, consulted with medical school admission committees, and developed a series of learning strategies for students. For more information, see <http://www.chemlife.umd.edu/biology/faculty/higgins/>

Preparing for the MCAT:

Part 1: June 22, 8:30-11:30 a.m. Bldg. 50/Room 1227

Part 2: June 29, 8:30-11:30 a.m. Bldg. 50/Room 1227

Preparing for the GRE:

Part 1: July 6, 9:00-11:30 a.m. Bldg. 50/Room 1227

Part 2: July 13, 9:00-11:30 a.m. Bldg. 50/Room 1227

Part 1

Overview

- Insight into the application process and application evaluation for medical school or graduate school
- How does my test score affect the application process?
- When do I take the test?
- Sections, content, types of questions

Part 2

How to prepare

- Review of specific types of questions
- Strategies for attacking the different sections
- How to study
- How do I know what to study?

Test Day!

- Final preparations
- Test Day strategies: "Do's," "Don't's," and a checklist
- Test Day procedures

Lunchtime Talks on Training for Research Careers

The NIH Office of Intramural Training and Education will host a series of noon "brown bag" sessions on selected Thursdays in Building 50, Room 1227 from 12:00 noon to 1:00 p.m. These informal sessions are designed for individuals who are interested in pursuing a career in biomedical research and are open to interns in all NIH laboratories. Prior registration is not required. The workshops will provide information on NIH training opportunities that can help one become a biomedical researcher and will feature discussions on the following topics:

June 29 **NIH-supported Programs for Undergraduates and Recent College Graduates**

Learn more about training opportunities at the NIH as well as programs available for students at grantee institutions.

- The **National Institute of General Medical Sciences (NIGMS)** supports basic biomedical research to enhance our understanding of life processes and lay the foundation for advances in disease diagnosis, treatment, and prevention. The Institute's programs encompass the areas of cell biology, biophysics, genetics, developmental biology, pharmacology, physiology, biological chemistry, bioinformatics, computational biology, and minority biomedical research and training. The Institute's training programs help to provide the most critical element of good research: well-prepared scientists.

- The **NIH Undergraduate Scholarship Program (UGSP)** offers scholarship awards to undergraduate students from disadvantaged backgrounds who are committed to careers in biomedical, behavioral, and/or social science health-related research. The financial benefits of up to \$20,000 per year can be used to cover tuition, plus reasonable educational and living expenses. There are NIH service obligations during the summer and after graduation. For more details, visit the UGSP website, <http://ugsp.info.nih.gov>. To request an application, call the UGSP InfoLine at (800) 528-7689 or e-mail ugsp@nih.gov.
- The **NIH Academy** is a residential program for up to 16 recent college graduates. Students are housed on Battery Lane in furnished apartments complete with computers. Tenure in the program may be one or two years. Special features of the program include:
 - A five-day orientation and opening and closing receptions
 - A Wednesday evening curriculum (including dinner) that features coverage of health disparities, skills development, and student presentations
 - \$300 for a GRE or MCAT preparation course
 - Outreach activities including judging science fairs, the Black Family Reunion, and the Langley Park Health Fair
 - One-on-one counseling regarding graduate or medical school applications and interviewing
- The **Postbaccalaureate Intramural Research Training Award (IRTA)** is a program for U.S. citizens or permanent residents who have graduated with a bachelor's degree from an accredited U.S. institution within the preceding two years. The participants are expected to apply to graduate or medical school. The program includes about 600 students. Features of the program include:
 - A postbacc governing committee consisting of representatives from the various Institutes/Centers
 - Monthly lectures (the second Thursday of the month, Lipsett Amphitheater) by distinguished scientists, often NIH investigators who have been nominated for the Distinguished Mentor Award, with refreshments provided by the Foundation for Advanced Education in the Sciences
 - A seminar series: two postbaccs present their work in each session, with refreshments sponsored by the Scientific Directors

- A fall welcome event plus workshops on applying to and interviewing for graduate or medical school, public speaking, presenting a poster, preparing for the GRE or MCAT, etc.
- Postbacc Poster Day
- Summer Extravaganza with Distinguished Mentor Award
- An official listserv and “Club PCR” (a social listserv)
- A postbacc website, <http://preirta.nih.gov>, maintained by the trainees
- The **Technical IRTA** program is designed to produce super technicians. It differs from the postbacc program in that there is no requirement that participants be recent college graduates. Participants may hold the MS degree. At present there are about 100 trainees in this program. Features:
 - Every trainee is expected to have a training plan
 - Trainees are included in the postbacc listserv, represented by the postbacc committee, and welcome at postbacc events.

July 6

Training Opportunities for Medical and Dental Students

The NIH offers a variety of programs for medical and dental students who aspire to careers in research. This session will provide information about basic and clinical training programs on the NIH campus as well as support for students in combined degree (M.D./Ph.D. and D.D.S./Ph.D.) programs.

- The **HHMI-NIH Research Scholars Program** was established in 1985 as a joint venture of the Howard Hughes Medical Institute, one of the Nation’s largest private biomedical research organizations, and the NIH. Students in good standing at U.S. medical schools are eligible to apply to the program. Research scholars spend nine months to a year on the NIH campus in Bethesda, Maryland, conducting biomedical research under the direct mentorship of senior NIH research scientists as they live among their peers at the Cloister, the research scholars’ on-campus residence. For further information, visit <http://www.hhmi.org/cloister>, call (800) 424-9924, or e-mail research_scholars@hhmi.org.
- The **Clinical Research Training Program (CRTP)** was established in 1997 at the recommendation of a panel of experts advising the NIH Director on the future of clinical research. This individualized, yearlong program was designed to attract the Nation’s most creative, research-oriented medical and dental students to clinical research early in their careers. Students who have completed a year of clinical rotations are invited to apply. In most cases, students apply during their third year and, if selected, enter the next CRTP class in the

summer. CRTP students usually spend one year in the program, with the possibility of an extension for a second year, provided support from their sponsoring NIH Institute is available and the student has permission from the home institution. Medical and dental students who are U.S. citizens or permanent residents and are enrolled in a medical school accredited by the Liaison Committee on Medical Education (LCME) or a dental school that is accredited by the Commission on Dental Accreditation are eligible to apply. The program currently accepts 30 new students per year.

- The **NIH Clinical Electives Program (CEP)** provides opportunities for medical and dental students to care for patients and explore clinical investigation in 25 subspecialty areas. It is open to students who have completed (or are in the process of completing) core clerkships. Elective periods last four to eight weeks beginning on the first Monday of each month, with the exception of Medical Informatics, which is only offered in March and April. Individualized research electives can also be arranged in the basic or clinical sciences.

July 13

Graduate School at NIH

If graduate school is in your future, come and learn how to take advantage of the incredible research resources at NIH while getting your Ph.D. from one of several highly respected universities. NIH has a 50-year history of training graduate students. In 2000, the decision was made to expand the NIH role in graduate education by establishing formal NIH/University partnerships, through the Graduate Partnerships Program (GPP), that allow students to do most of their academic coursework at the university and dissertation research at NIH. There are currently 16 GPP programs to choose from. Students may also create individualized collaborations between NIH investigators and university research mentors.

In keeping with the NIH Roadmap, the goal of the GPP is to create a Ph.D. training model that emphasizes development of skills to:

- Work collaboratively across disciplines, institutions, and/or national cultures
- Acquire deep expertise in a primary field of interest and sufficient expertise in another discipline to see and study questions which cross the boundaries
- Recognize and address research questions that might have a lower chance of success but bigger potential payoff

A current list of partnership programs can be found at <http://gpp.nih.gov>.

July 20

Preparing for Careers in Biomedical Research

Hear successful investigators discuss educational pathways to a career in biomedical research.

Programs, Lectures, and Workshops for Students

Medical and Dental Student Activities

Several events specifically designed for students in the Summer Research Fellowship Program (SRFP: for individuals who have completed at least one year of medical or dental school) address research opportunities and careers in medicine and dentistry.

July 11	1:00 p.m.	Graduate Medical Education Loan Repayment Programs	Building 10, Room B1L408
July 18	1:00 p.m.	NIH Clinical Research Training Program RSVP to (301) 451-4457	Meet at Masur Auditorium Building 10
July 26	12:00 noon	Howard Hughes Medical Institute Cloister Program RSVP to (301) 951-6708	Building 60, Lecture Hall/ Chapel

And More

Science Working for Us Seminar Series: Eleventh Annual Diggs Lecture

The Diggs Lecture is sponsored by the NIH Black Scientists Association and highlights research related to minority health. The lecture is named for the late Dr. John Diggs, a former NIH Deputy Director for Extramural Research. Details regarding this year's lecture will be announced in June.

NIA/NIDA Student Poster Session

August 1 1:00 to 5:00 p.m. Gerontology Research Center Lobby, Baltimore

NICHD Summer Program Poster Presentations

August 3 4:00 to 6:00 p.m. Visitor Information Center, B-1 level, Building 10

Science in the Cinema

Science in the Cinema is a free film festival sponsored by the NIH Office of Science Education (OSE), in partnership with the AFI Silver Theatre and Cultural Center. This year's festival will be held on July 12, 19, 26, and August 2, 9, 16 at the historic Silver Theatre, located in downtown Silver Spring. Each day, a film with a medical science-related theme will be shown in its entirety. Following the film, a guest speaker with expertise in the film's subject area will comment on the science depicted in the film and take questions from the audience.

Shows start at 7:00 p.m. Tickets are free and are available on a first-come, first-served basis through the AFI Silver box office on the day of show only. For more information, contact the OSE at (301) 402-2469 or visit the website, <http://science.education.nih.gov/cinema>.

Laboratory Safety

The NIH is responsible for the promotion of safe work practices for all who work in NIH research facilities, including summer students. The Division of Occupational Health and Safety offers several required laboratory safety courses that summer research trainees must complete.

The courses listed below provide training in the safe work practices and procedures to be employed when working in the NIH research environment.

Introduction to Laboratory Safety Computer-based Training Course

The introductory course in laboratory safety is mandatory for all new laboratory research trainees and must be completed prior to attending a classroom course in laboratory safety. The course introduces laboratory personnel to common hazards and exposure risks, including chemical, radiological, and biological hazards that are found in NIH research laboratories. It provides instruction on how to prevent exposure to these hazards and procedures for emergency response. The course also covers NIH waste-handling procedures as well as methods to ensure the research laboratory is free from common physical hazards. It provides information on NIH security policies and procedures. To access the on-line course, go to <http://www.ors.od.nih.gov/labsafety/>. This course can be accessed only from NIH computers; CD-ROM versions of the introductory web course are available.

Laboratory Safety Classroom Courses

After completing the computer-based **Introduction to Laboratory Safety** course, students must attend a classroom laboratory safety class. Laboratory supervisors are responsible for ensuring that their staff attend the correct training prior to working with potentially hazardous materials.

Starting in May of 2006, specific classroom safety courses will be offered for summer research trainees. All new summer research trainees over the age of 21 must attend the training course entitled **Laboratory Safety at the NIH**. All summer research trainees age 21 and under, new or returning, must attend the **Student Laboratory Safety Training** course. The student course will be scheduled twice per week starting in late May.

The **Student Laboratory Safety Training** course is a classroom course for new and returning students who are age 21 and under. This new course was designed and developed for students who have minimal research experience or who may be new to biomedical research. The goals of the course are three-fold: stimulate the student's critical thinking skills for practical application to operations within the biomedical research laboratory; provide an introduction to occupational health, environmental health, and safety topics applicable to the broad range of laboratory activities common to the NIH research campus; and minimize job-related injuries and illness through increased knowledge of safety. This classroom course meets the initial training requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard and Occupational Exposure to Hazardous Chemicals in Laboratories Standard.

Students will be expected to engage in active dialogue regarding common laboratory hazards and demonstrate comprehension by successful completion of an exam. A minimum passing exam grade of 85% is required.

In addition to the new student classroom course, a **Get to Know the Laboratory** hands-on laboratory course will be offered. This course is designed to meet the needs of novice researchers in the 16 through 21 age group. Participation in this course will be voluntary, but is strongly recommended.

Student Laboratory Safety Training will be offered at the following times and dates.

All sessions will be held in Building 10, in Masur Auditorium or Lipsett Amphitheater.

May 24	9:00-10:30 a.m.	Lipsett Amphitheater
May 31	9:00-10:30 a.m.	Lipsett Amphitheater
June 1	9:00-10:30 a.m.	Lipsett Amphitheater
June 6	2:00-3:30 p.m.	Masur Auditorium
June 7	9:00-10:30 a.m.	Masur Auditorium
June 13	3:30-5:00 p.m.	Lipsett Amphitheater
June 14	9:00-10:30 a.m.	Masur Auditorium
June 20	2:00-3:30 p.m.	Lipsett Amphitheater
June 21	9:00-10:30 a.m.	Lipsett Amphitheater
June 27	2:00-3:30 p.m.	Lipsett Amphitheater
June 28	9:00-10:30 a.m.	Lipsett Amphitheater
June 29	9:00-10:30 a.m.	Lipsett Amphitheater
July 12	1:00-2:30 p.m.	Masur Auditorium
July 13	2:00-3:30 p.m.	Lipsett Amphitheater
July 18	2:00-3:30 p.m.	Lipsett Amphitheater
July 19	1:00-2:30 p.m.	Lipsett Amphitheater
July 20	2:00-3:30 p.m.	Masur Auditorium
July 26	1:00-2:30 p.m.	Lipsett Amphitheater
August 2	9:00-10:30 a.m.	Lipsett Amphitheater

Please note: This classroom course is required for all new and returning students. Credit for attendance will not be given to late arrivals. Individuals who arrive late will be asked to reschedule.

New summer research trainees who are over the age of 21 are required to complete the course entitled **Laboratory Safety at the NIH**. This classroom course provides training on the recognition and control of common physical, chemical, and biological hazards found in NIH research laboratories. It includes required information on NIH policies and procedures for working safely in the research laboratory as well as methods for hazardous waste minimization. The course also covers engineering controls and personal protective equipment as well as the NIH medical surveillance program available through the Division of Occupational Health and Safety, Occupational Medical Service. Attendance at this program assists in meeting the training requirement of the OSHA Hazard Communication Standard and Occupational Exposure to Hazardous Chemicals in Laboratories Standard.

Laboratory Safety at the NIH will be offered on the following dates. All sessions will be held from 9:00 a.m. to 12:00 noon in Building 10, Masur Auditorium or Lipsett Amphitheater.

May 25	Lipsett Amphitheater	July 11	Masur Auditorium
June 8	Masur Auditorium	July 27	Masur Auditorium
June 22	Masur Auditorium	August 22	Masur Auditorium

Please note: Credit for attendance will not be given to late arrivals. Individuals who arrive late will be asked to reschedule.

Laboratory Safety Refresher Course

All returning summer students, regardless of age, must complete a one-hour mandatory computer-based laboratory safety refresher course that provides updates on safety procedures and policies that govern laboratory safety at the NIH. As noted above, in 2006, all returning summer students age 21 and under will be required to complete this refresher course and the classroom **Student Laboratory Safety** course. The refresher course should be completed on-line at: <http://www.ors.od.nih.gov/labsafety>.

Working Safely with HIV and Other Bloodborne Pathogens in the Research Laboratory

This two-hour course is for all individuals working with bloodborne pathogens. The course provides research personnel with information on working safely with bloodborne pathogens in NIH research laboratories in accordance with the OSHA Bloodborne Pathogen Standard. This course specifically discusses work practices in Biosafety Safety Level 2 and 3 laboratories, common methods of exposure, and the use of controls to prevent exposure. The course outlines steps to take in case of a potential exposure and reviews medical pathological waste disposal procedures. Attendance at this program is mandatory for research personnel who work with or who may be exposed to:

- Human blood, body fluids, and/or tissues
- Human or nonhuman primate retroviruses
- Hepatitis B and C viruses
- Other bloodborne pathogens
- Animals or their housing

This training is required before working with bloodborne pathogens. **Working Safely with HIV and Other Bloodborne Pathogens** will be offered on the following dates. All sessions will be held from 10:00 a.m. to 12:00 noon in Building 10, Masur Auditorium or Lipsett Amphitheater.

May 23	Lipsett Amphitheater	July 12	Masur Auditorium
June 6	Masur Auditorium	July 25	Masur Auditorium
June 20	Masur Auditorium	August 24	Lipsett Amphitheater

Please note: Credit for attendance will not be given to late arrivals. Individuals who are late will be asked to reschedule.

Bloodborne Pathogen Refresher Training

This web course provides annual refresher training for research laboratory personnel who may potentially be exposed to bloodborne pathogens in their work in the research laboratory and have previously attended **Working Safely with HIV and Other Bloodborne Pathogens**. The course provides researchers with the latest information on bloodborne pathogen risks in the research laboratory as well as information on means of protection from potential occupational exposures. Summer researchers who have completed the NIH **Working Safely with HIV and Other Bloodborne Pathogens** course within the last three years can complete

the refresher course instead of attending a classroom bloodborne pathogen course. Annual completion of a Bloodborne pathogen course is mandatory for all laboratory research personnel who work with or who may potentially be exposed to bloodborne pathogens.

To register for these laboratory safety courses, utilize the on-line registration program available at <http://www.ors.od.nih.gov/labsafety>. If unable to register on-line, print out the fax registration form located at the website and fax the completed form to Toni Ellis at 301-402-0313.

Radiation Safety

All students entering laboratories posted for radioactive material use must take the **Radiation Safety Orientation** on-line training module at <http://www.nih.gov/od/ors/ds/rsb/rso/index.html>. This requirement applies to all such students, regardless of whether they may actually handle radioactive materials. Interns who will handle radioactive materials must also complete the **Radiation Safety in the Lab** (RSL) course.

Radiation Safety in the Lab will be offered on the following dates:

May 18	8:45 a.m.-12:00 noon	Building 21, Room 237
June 8	1:00-4:00 p.m.	Masur Auditorium
June 22	2:00-5:00 p.m.	Masur Auditorium
July 11	1:00-4:00 p.m.	Masur Auditorium
July 27	1:00-4:00 p.m.	Masur Auditorium
August 3	9:00 a.m.-12:00 noon	Building 21, Room 237
August 17	9:00 a.m.-12:00 noon	Building 21, Room 237

For more information concerning radiation safety training, please contact the Radiation Safety Training Office at (301) 496-2255.

Dosimeter Evaluation Form

Every summer trainee who takes the RSL course must complete a Dosimeter Evaluation Form. The student must bring the completed and signed form to the RSL course he/she is scheduled to attend. The form is available for downloading at <http://www.nih.gov/od/ors/ds/rsb/forms/dosimetry.pdf>.

Minors Handling Radioactive Materials

Summer students under the age of 18 who plan to use radioactive materials must obtain special permission from the Radiation Safety Officer. Such students must submit the application form that is available for downloading at <http://www.nih.gov/od/ors/ds/rsb/minor.html>.

Returning Summer Students

Summer students returning to the NIH will use their old Radiation Safety Branch identification number, but must call (301) 496-2255 to request reactivation of this number. Students who have been away from the NIH for more than two years must retake the **Radiation Safety in the Lab** (RSL) course.

Animal Care and Use

The Office of Animal Care and Use (OACU) offers a variety of training courses for NIH intramural personnel who work with animals. These courses are free to participants and fulfill federal training requirements for working with animals. Depending on what species you will be working with, different courses are required. You may register on-line at <http://oacu.od.nih.gov/training/index.htm> or by calling the OACU at (301) 496-5424.

Using Animals in Intramural Research: Guidelines for Animal Users

Students who will be working with animals under the direction of a senior scientist must complete **Guidelines for Animal Users** before beginning their work. The course is offered as a 90-minute lecture and in an on-line, web-based format. It describes proper care and use of animals in a research laboratory. Additional discussion of animal handling and restraint is presented to assure humane management of the animals.

The summer schedule for this course is:

June 12	9:00-10:30 a.m.	Building 50, Lobby level conference room
July 17	9:00-10:30 a.m.	Building 50, Lobby level conference room

The on-line course takes approximately 90 minutes to complete, but it does not have to be finished in one sitting. To access the on-line course, go to <http://fmp.cit.nih.gov/oacu/users/index.html>.

Working Safely with Nonhuman Primates

The course entitled **Working Safely with Nonhuman Primates** is required for all trainees who will be working with nonhuman primates (NHP). You will learn about the normal behavior of NHP to help prevent injury and exposure to pathogens, such as Herpes B-virus, that are transmissible to humans. The course, which consists of a video, handouts, and a quiz, is given on an individual basis at the animal facility. Contact your Institute or Center's veterinarian or the animal facility manager to arrange for a presentation.

Hands-on Animal Techniques: Rodent Workshops

The **Rodent Workshops** are optional opportunities to learn manual handling, sampling, and restraint techniques used in the laboratory with live animals. These half-day, small-group sessions provide an opportunity for individual instruction by certified laboratory animal technologists.

Workshops will be held from 8:30 to 11:00 a.m. in Building 49, Room 2A46. If the morning class is full, an afternoon session from 12:00 noon to 2:30 p.m. may be offered. Workshop dates will be posted on the OACU website. You must register at least two weeks before the scheduled date of the workshop at the training website, <http://oacu.od.nih.gov/training/schedule2006.htm>, as enrollment is limited.

Mouse Only	Rats Only
May 19	May 19
June 16	July 14
July 14	

General Information

When and where does it take place?

Poster Day 2006 is scheduled for Thursday, August 3, 2006, and will be held in the NIH Clinical Center. Participants are required to set up their posters between 3:00 and 5:00 p.m. on Wednesday, August 2. At that time, you will receive information regarding your poster board assignment (board number, session, and time).

Who may present?

Any student (high school, college, medical, dental, or graduate) working in an intramural laboratory this summer. You will need to spend the entire session at your poster.

What will the format be?

You will have a 3½ by 3½ foot pre-assigned poster board on which to display your information. Your poster should include:

- An introduction (providing background information)
- The purpose of the project
- Materials and methods used
- Results and conclusions

While the text should be typed, figures may be drawn by hand. See the accompanying **Suggestions for Presenting Research in a Poster Format**.

Why should I participate?

This is a great opportunity to share the exciting work you have been doing this summer. Of course, having been here less than two months, you may not have final results from your experiments, particularly if this is your first year in a research lab. Even if your results are preliminary or incomplete at this time, you can still present background information on your project, any data you may have collected, or a discussion of the technical problems you have encountered. During your session, you will have a chance to discuss your project informally with your peers and with other members of the NIH scientific community. You will receive a certificate in recognition of your participation in Poster Day.

How do I register?

You can register electronically at <http://www.training.nih.gov> beginning May 22. The registration form on the next page is a sample of what you will need to complete on-line.

When is the deadline?

Thursday, July 6 2006, at 5:00 p.m. (EDT). Your registration will be confirmed via e-mail one week to ten days after the deadline. The deadline for preceptor approval is Monday, July 10 at 5:00 p.m. (EDT).

What if I have questions?

Contact Ms. Debbie Cohen by e-mail at dc26a@nih.gov or call (301) 402-1907.

Sample Registration Form from www.training.nih.gov

(Be sure to read the on-line application tips before registering.)

Poster Information

Title •

NIH IC •

NIH Laboratory or Clinical Branch •

Preceptor Information

Primary Preceptor Dr. First MI Last •

E-mail •

Other Preceptor (if applicable) Dr. First MI Last •

E-mail •

Continue

Poster Presenter Information

Name Mr. First MI Last •

E-mail •

NIH Building •

NIH Room •

Permanent Address •

City •

State •

Zip •

NIH Phone •

NIH Fax •

Academic Information (as of Spring 2006)

Education Level •

School Year •

Last School Attended •

City •

State •

Back

Preview

Add Another Presenter

Registration Form (Part 1 of 2)

Instructions

- Enter the data requested and click the **Continue** button at the bottom of the page.
- Required fields are indicated with a (•).
- If desired, you may use the **tab** key to navigate the fields.

Application Form (Part 2 of 2)

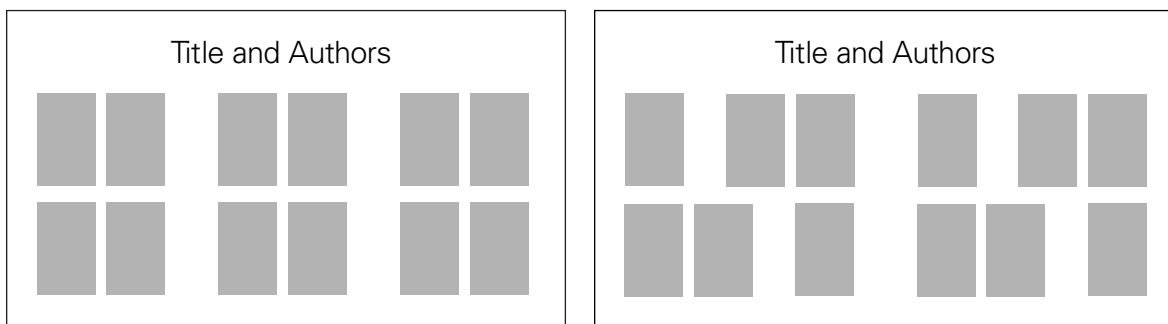
Instructions

- Enter the data requested and click a button at the bottom of the page.
- **Note:** Clicking **Preview** will allow verification of your inputs before submission.
- Required fields are indicated with a (•).
- If desired, you may use the **tab** key to navigate the fields.

Suggestions for Presenting Research in a Poster Format

1. The Office of Intramural Training and Education provides the space where you will hang your poster. You are responsible for designing, producing, and displaying the poster itself. Your poster will be displayed on a bulletin board surface. Be sure to bring thumbtacks or push-pins, as they will not be provided.
2. Draw a rough sketch of your poster. The board provided is 3 1/2 feet by 3 1/2 feet, so you should proportion your drawing accordingly. You may find it helpful to use graph paper and post-it notes to better visualize where the components of your poster will go.
3. Crowded, cluttered posters are difficult to read and are often disregarded in favor of more eye-pleasing posters. Make sure every item on your poster is necessary. Keep the text to a minimum and emphasize the graphics—charts, graphs, and photos. Save what you might put in text for discussion.
4. When composing your poster, use blank space to highlight or offset information. Be sure to align all edges of paper. Place related materials (e.g., graph with accompanying legend) close together, then offset it by surrounding it with blank space.

Arrange your information symmetrically on the board. A good approach is to divide your space vertically or horizontally into three or four sections.



5. Be sure to include the title of the presentation in large letters, the Institute and laboratory/branch where the work was completed, and the author names at the top center of the poster. Also, list the name of your school, college, or university. Place the abstract of your work on the upper left side of the poster.
6. Typewritten materials should be easy to read at a distance of four feet. Ordinary typewritten or handwritten copy will be too small for your audience to read, so use a computer and increase the font size to at least 18 point.

Adapted from American Society for Microbiology's "Guide to Poster and Slide Sessions"

Contacts

Summer Research Program Coordinators

Center for Biologics Evaluation and
Research (CBER)

Ms. Mary K. Mellinger
1401 Rockville Pike HFM-20
Rockville, MD 20892
Telephone: (301) 827-0782
Fax: (301) 827-0440
E-mail: mellinger@cber.fda.gov

National Institute on Aging (NIA)

Ms. Arlene Jackson
Gerontology Research Center
5600 Nathan Shock Drive
Personnel (Box 18)
Baltimore, MD 21224
Telephone: (410) 558-8121
Fax: (410) 558-8103
E-mail: JacksonA@mail.nih.gov

National Institute on Alcohol Abuse
and Alcoholism (NIAAA)

Ms. Andrea Hobbs
5635 Fishers Lane MSC 9304
Bethesda, MD 20892-9304
Telephone: (301) 443-2435
Fax: (301) 443-6076
E-mail: ashobbs@box-a.nih.gov

National Institute of Allergy and
Infectious Diseases (NIAID)

Dr. Wendy J. Fibison
Quarters 15B-1
8 West Drive MSC 2667
Bethesda, MD 20892-2667
Telephone: (301) 496-6400
Fax: (301) 402-3594
E-mail: trainingcoordinator@niaid.nih.gov

National Institute of Allergy and
Infectious Diseases (NIAID)

Mr. Neil Sunley
Quarters 15B-1
8 West Drive MSC 2667
Bethesda, MD 20892-2667
Telephone: (301) 496-2638
Fax: (301) 402-3594
E-mail: trainingcoordinator@niaid.nih.gov

National Institute of Allergy and
Infectious Diseases–Vaccine Research
Center (NIAID–VRC)

Ms. Lisa Joliet
Building 40, Room 1100C
40 Convent Drive MSC 3013
Bethesda, MD 20892-3013
Telephone: (301) 435-8558
Fax: (301) 480-0274
E-mail: ljoliet@mail.nih.gov

National Institute of Arthritis and
Musculoskeletal and Skin Diseases (NIAMS)

Dr. Mario E. Cerritelli
Building 9, Room B1E04
9 Memorial Drive MSC 0965
Bethesda, MD 20892-0965
Telephone: (301) 402-6924
Fax: (301) 480-4871
E-mail: cerritem@mail.nih.gov

National Cancer Institute (NCI)

Ms. Sandra Thomas
Office of Workforce Development (OWD)
Room 502
6116 Executive Boulevard MSC 8342
Bethesda, MD 20892-8342
Telephone: (301) 435-8524
Fax: (301) 402-3509
E-mail: thomass@od.nci.nih.gov

National Cancer Institute–
Center for Cancer Research (NCI–CCR)
Dr. Jonathan Wiest
Building 31, Room 4A48
31 Center Drive MSC 2440
Bethesda, MD 20892-2440
Telephone: (301) 451-9638
Fax: (301) 451-6238
E-mail: wiestj@mail.nih.gov

National Cancer Institute–
Center for Cancer Research (NCI–CCR)
Ms. Vi Black
Building 31, Room 4A48
31 Center Drive MSC 2440
Bethesda, MD 20892-2440
Telephone: (301) 594-5363
Fax: (301) 451-6238
E-mail: blackv@mail.nih.gov

National Cancer Institute–
Division of Cancer Epidemiology and
Genetics (NCI–DCEG)
Ms. Kris Kiser
6120 Executive Boulevard MSC 7242
Bethesda, MD 20850-7242
Telephone: (301) 594-3005
Fax: (301) 402-3256
E-mail: ncidceg-r@mail.nih.gov

National Cancer Institute–
Division of Cancer Treatment and
Diagnosis (NCI–DCTD)
Ms. Kristen Lee
NCI–Frederick
Fairview Center, Suite 205
1003 West 7th Street
Frederick, MD 21701
Telephone: (301) 846-5438
Fax: (301) 846-6183
E-mail: leek@dtpepn.nci.nih.gov

National Center for Complementary and
Alternative Medicine (NCCAM)
Dr. Julia Arnold
Building 9, Room 1N105
9 Memorial Drive MSC 0933
Bethesda, MD 20892-0933
Telephone: (301) 451-6711
Fax: (301) 480-3159
E-mail: jarnold@mail.nih.gov

National Institute of Child Health and
Human Development (NICHD)
Ms. Ellie Hochman
One Rockledge Centre, Suite 8000
6705 Rockledge Drive MSC 9692
Bethesda, MD 20814-9692
Telephone: (301) 402-2640
Fax: (301) 480-6333
E-mail: hochmane@exchange.nih.gov

National Institute on Deafness and
Other Communication Disorders (NIDCD)
Ms. Gayle Mundell
Building 31, Room 3C08
31 Center Drive MSC 2320
Bethesda, MD 20892-2320
Telephone: (301) 402-0495
Fax: (301) 402-1590
E-mail: mundellg@mail.nih.gov

National Institute on Deafness and
Other Communication Disorders (NIDCD)
Ms. Debbie Washington
Building 31, Room 3C08
31 Center Drive MSC 2320
Bethesda, MD 20892-2320
Telephone: (301) 402-0495
Fax: (301) 402-1590
E-mail: washdeb@nidcd.nih.gov

National Institute of Dental and Craniofacial Research (NIDCR)
Dr. Deborah Philp
Building 30, Room 56
30 Convent Drive MSC 4310
Bethesda, MD 20892-4310
Telephone: (301) 594-6578
Fax: (301) 480-5353
E-mail: dphilp@dir.nidcr.nih.gov

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Ms. Carolyn Bell
Building 10, Room 9N208
10 Center Drive MSC 1814
Bethesda, MD 20892-1814
Telephone: (301) 402-2394
Fax: (301) 402-0069
E-mail: carolynbell@mail.nih.gov

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Ms. Kathy Grimmnitz
Building 10, Room 9N208
10 Center Drive MSC 1814
Bethesda, MD 20892-1814
Telephone: (301) 402-2393
Fax: (301) 402-0069
E-mail: KathyG@intra.niddk.nih.gov

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Ms. Francie Kitzmiller
Building 10, Room 9N208
10 Center Drive MSC 1814
Bethesda, MD 20892-1814
Telephone: (301) 435-2925
Fax: (301) 402-0069
E-mail: FrancieK@amb.niddk.nih.gov

National Institute on Drug Abuse (NIDA)
Dr. Stephen Heishman
Clinical Pharmacology and Therapeutics Research Branch
Room 265
5500 Nathan Shock Drive
Baltimore, MD 21224
Telephone: (410) 550-1547
Fax: (410) 550-1849
E-mail: heishman@nih.gov

National Institute of Environmental Health Sciences (NIEHS)
Summers of Discovery Program
Ms. Charle League
Coordinator, Summers of Discovery and Special Programs
NIEHS/NIH (B2-08)
P.O. Box 12233 or
111 T.W. Alexander Drive, Room B-234
Research Triangle Park, NC 27709-2233
Telephone: (919) 541-5741
Fax: (919) 541-1994
E-mail: league@niehs.nih.gov
Website: <http://dir.niehs.nih.gov>
Summers Website:
<http://www.niehs.nih.gov/summers>

National Eye Institute (NEI)
Ms. Belinda Davis
Building 31, Room 6A22
31 Center Drive MSC 2510
Bethesda, MD 20892-2510
Telephone: (301) 451-6763
Fax: (301) 451-6764
E-mail: davisb@nei.nih.gov

National Heart, Lung, and Blood
Institute (NHLBI)

Ms. Jessica M. Llewellyn
Building 10, Room 2N242
10 Center Drive MSC 1535
Bethesda, MD 20892-1535
Telephone: (301) 451-9440
Fax: (301) 594-8133
E-mail: llewellj@mail.nih.gov

National Human Genome Research
Institute (NHGRI)

Ms. Debbie Wilson
Building 50, Room 5228
50 South Drive MSC 8002
Bethesda, MD 20892-8002
Telephone: (301) 496-7925
Fax: (301) 480-2634
E-mail: nhgritraining@mail.nih.gov

National Institute of Mental Health (NIMH)

Dr. Barry Kaplan
Building 10, Room 4N222
10 Center Drive MSC 1381
Bethesda, MD 20892-1381
Telephone: (301) 451-4512
Fax: (301) 594-3189
E-mail: nimhfellowships@intra.nimh.nih.gov

National Institute of Neurological
Disorders and Stroke (NINDS)

Dr. Rita Devine Ward
Building 35, Room GA902
35 Convent Drive MSC 4062
Bethesda, MD 20892-4062
Telephone: 301-594-9562
Fax: 301-496-4276
E-mail: wardr@mail.nih.gov

National Institute of Neurological
Disorders and Stroke (NINDS)

Ms. Karen Augustine
Building 10, Room 3B14
10 Center Drive MSC 1296
Bethesda, MD 20892-1296
Telephone: 301-594-6270
Fax: 301-594-5799
E-mail: augustink@ninds.nih.gov

National Institute of Neurological
Disorders and Stroke (NINDS)

Ms. Risa Schecter
Building 35, Room GA902
35 Convent Drive MSC 1381
Bethesda, MD 20892-1381
Telephone: (301) 443-1910
Fax: (301) 496-4276
E-mail: schecterr@ninds.nih.gov

National Institute on Nursing
Research (NINR)

Dr. Donna Jo McCloskey
Building 31, Room 5B13
31 Center Drive MSC 2540
Bethesda, MD 20892-2540
Telephone: (301) 402-1446
Fax: (301) 480-4969
McCloskeyd@mail.nih.gov

National Library of Medicine–
Lister Hill Center (NLM–LHC)

Ms. May Cheh
Building 38, Room 9N919
8600 Rockville Pike MSC 3826
Bethesda, MD 20894-3826
Telephone: (301) 435-3193
Fax: (301) 496-0673
E-mail: cheh@nlm.nih.gov

National Library of Medicine–
National Center for Biotechnology
Information (NLM–NCBI)
Mr. Coung Tran
Building 38A, Room 8N801
9000 Rockville Pike MSC 3827
Bethesda, MD 20894-3827
Telephone: (301) 451-5161
Fax: (301) 480-4559
E-mail: ct137w@nih.gov

National Institute of Biomedical Imaging
and Bioengineering (NIBIB)
Ms. Sheila F. Barrett
Building 31, Room 1C-27
31 Center Drive MSC 2281
Bethesda, MD 20892-2281
Telephone: (301) 451-0713
Fax: (301) 480-0679
E-mail: sbarrett@mail.nih.gov

Office of the Director/Office of Intramural
Research/Office of Human Subjects
Research (OD/OIR/OHSR)
Dr. Alison Wichman
Building 10, Room 1C116
10 Center Drive MSC 1154
Bethesda, MD 20892-1154
Telephone: (301) 402-3444
Fax: (301) 402-3443
E-mail: wichmana@od1em1.od.nih.gov

Office of Research Services/Office of
Research Facilities Development and
Operations (ORS/ORFDO)
Ms. Tanya Smith
Building 31, Room 4B41
31 South Drive MSC 2157
Bethesda, MD 20892-2157
Telephone: (301) 402-1528
Fax: (301) 402-1057
E-mail: smitht@mail.nih.gov

Office of Research Services/Office of
Research Facilities Development and
Operations (OD/ORFDO)
Ms. Jessica Akers
Building 31, Room 4B41
31 Center Drive MSC 2157
Bethesda, MD 20892-2157
Telephone: (301) 402-1528
Fax: (301) 402-1507
E-mail: akerst@mail.nih.gov

NIH Clinical Center (CC)
Ms. Cynthia Bolton
OHRM/POS
Room 2-B225
2115 E. Jefferson Street MSC 8502
Bethesda, MD 20892-8502
Telephone: (301) 435-4752
Fax: (301) 435-6761
E-mail: cbolton@cc.nih.gov

Central NIH Summer Program Coordinator

Ms. Debbie Cohen
NIH Office of Intramural Training and Education
Building 2, Room 2W11
2 Center Drive MSC 0240
Bethesda, MD 20892-0240
Telephone: (301) 402-1907
Fax: (301) 402-0483
E-mail: dc26a@nih.gov

Useful Web Sites

Office of Intramural Training and Education (OITE)

The Office of Intramural Training and Education

<http://www.training.nih.gov>

- Information about NIH training programs
- Current postdoctoral and tenure-track position listings
- Fellowship Training Program (800) 445-8283 (information for summer students, postbaccs, and postdocs)
- Graduate Partnerships Program (877) 422-7882 (information for graduate students)
- Medical Education Program (888) 695-5343 (information for medical and dental students)

NIH Resources

General NIH Info

<http://www.nih.gov>

The main NIH website

NIH Jumpstart

<http://jumpstart.nih.gov>

A quick way to find answers to your questions about the NIH

NIH Directory

<http://directory.nih.gov>

NIH On-line Orientation

<http://orientation.nih.gov>

Security Information at the NIH

<http://security.nih.gov>

Guidelines for the Conduct of Research

<http://www.nih.gov/news/irnews/guidelines.htm>

A Guide to Training and Mentoring in the Intramural Research Program at NIH

http://www1.od.nih.gov/oir/sourcebook/ethic-conduct/TrainingMentoringGuide_7.3.02.pdf

The NIH Office of the Ombudsman and Center for Cooperative Resolution

<http://www4.od.nih.gov/ccr/ombud.html>

NIH Library

<http://nihlibrary.nih.gov>

NIH Videocasts

<http://videocast.nih.gov>

Rebroadcasts of NIH lectures and conferences

NIH Intramural Database (Institute and Center Annual Reports)

<http://intramural.nih.gov/search>

Annual reports from all the Institutes and Centers, which are searchable so that you can find specific investigators working in particular areas of interest

NIH Housing List

<http://www.recgov.org/housing/Rent.html>

NIH Blood Bank

http://www.cc.nih.gov/dtm/donor_patient/dtm_donor_info.htm

NIH Federal Credit Union

<http://www.nihfcu.org>

Transportation

NIH Travel and Transportation Services

<http://dtts.ors.od.nih.gov/transportation.htm>

NIH Transshare

<http://dtts.ors.od.nih.gov/transshare.htm>

Agree not to drive your car to the NIH and receive cash subsidies for public transportation

Washington Metro Area Transit Authority

<http://www.wmata.com>

A guide to the buses and subways in Washington, D.C. and the surrounding counties

Ride-On Map

<http://www.montgomerycountymd.gov/content/dpwt/transit/routesandschedules/placelist/maplist.asp>

Map of Montgomery County, MD, bus routes

Other Resources to Help You Get Settled

A great reference on finding housing in the Bethesda area

<http://murray.senate.gov/internship/dchousing.cfm>

Craigslist

<http://washingtondc.craigslist.org>

The Washington Post

<http://www.washingtonpost.com>

The NIH Fellows Committee (FELCOM) Exchange Board

<http://208.234.17.104/recgov/cgi-bin/felcom/discus.cgi>

Furnish your space with items others no longer need

Entertainment

"Work is hard. Distractions are plentiful. And time is short."

– Adam Hochschild

"He who cannot rest, cannot work..."

– Harry Emerson Fosdick

The national capitol area has much to offer in the way of entertainment and relaxation. Whether your passion is nature, history, art, nightlife, or fine food, there is plenty here for you. The museums, parks, and historical sites listed below are just a small sample from the veritable smorgasbord of interesting sites and events around town. One of the best ways to learn about other local points of historical and cultural significance—as well as the latest events of interest—is through the Internet. Among the various on-line art and entertainment guides, the following will help you learn about all that the area has to offer:

<http://www.washington.org/>

<http://eg.washingtonpost.com/>

<http://www.washdc.org/>

Museums

B’Nai B’rith Klutznick National Jewish Museum

2020 K Street NW
Washington, DC 20006
(202) 857-6583

Admission: Free

Metro: Red Line, Farragut North

<http://www.bnaibrith.org/museum/>

The Gardens are located between the Washington Monument and the Lincoln Memorial, bordered by Constitution Avenue, 17th Street, and the Reflecting Pool.

Admission: Free. Permits are required for special events and First Amendment activities.

Metro: Blue/Orange Lines, Smithsonian

<http://www.nps.gov/coga/index.htm/>

Bethune Museum & Archives, Inc.

1318 Vermont Avenue NW
Washington, DC 20005
(202) 673-2402

Admission: Free

Metro: Blue/Orange Lines,

McPherson Square

<http://www.nps.gov/mamc/>

Corcoran Gallery of Art

500 17th Street NW
Washington, DC 20006
(202) 639-1700

Admission: Admission is charged.

Metro: Blue/Orange Lines, Farragut West

<http://www.corcoran.org/>

Constitution Gardens

900 Ohio Drive SW
Washington, DC 20242
(202) 426-6841

DAR Museum

1776 D Street NW
Washington, DC 20006
(202) 628-1776

Admission: Free

Metro: Blue/Orange Lines, Farragut West

<http://www.dar.org/museum/>

Decatur House Museum

1610 H Street NW
Washington, DC 20006
(202) 842-0920
Admission: Admission is charged.
Metro: Blue/Orange Lines, Farragut West
<http://www.decatourhouse.org/>

Folger Shakespeare Library

201 East Capitol Street SE
Washington, DC 20003
(202) 544-4600
Admission: Free; tours at 11:00 a.m.
Metro: Blue/Orange Lines, Capitol South
<http://www.folger.edu/>

Fort Ward Museum

4301 West Braddock Road
Alexandria, VA 22304
(703) 838-4848
Admission: Free
Metro: Yellow Line, King Street;
DASH bus A-T5
<http://oha.ci.alexandria.va.us/fortward/>

International Spy Museum

800 F Street NW
Washington, DC 20004
(202) 393-7798
Admission: Admission is charged.
Metro: Red/Yellow Lines,
Gallery Place/Chinatown
<http://www.spymuseum.org/>

Library of Congress

1st Street & Independence Avenue SE
Washington, DC 20540
(202) 707-8000
Admission: Free
Metro: Blue/Orange Lines, Capitol South
<http://www.loc.gov/>

Lillian & Albert Small Jewish Museum

3rd & G Streets NW
Washington, DC 20001
(202) 789-0900
Admission: Free
Metro: Red Line, Judiciary Square
<http://www.loc.gov/rr/main/religion/jhw.html/>

Lyceum

201 S. Washington Street
Alexandria, VA 22314
(703) 838-4994
Admission: Admission is charged.
Metro: Yellow Line, King Street
<http://oha.ci.alexandria.va.us/lyceum/>

Manassas Museum

9101 Prince William Street
Manassas, VA 22110
(703) 368-1873
Admission: Admission is charged.
<http://www.manassasmuseum.com/>

**Marian Koshland Science Museum
The National Academies**

500 Fifth Street, NW
Washington, DC 20001
202-334-1201 or
toll-free 888-KOSHLAND (888-567-4526)
Admission: Admission is charged.
Metro: Blue/Orange/Red Lines,
Gallery Place/Chinatown
<http://www.koshland-science-museum.org/>

National Archives

700 Pennsylvania Avenue NW
Washington, DC 20408
(866) 325-7208
Admission: Free
Metro: Green/Yellow Lines, Archives
<http://www.archives.gov/>

National Archives at College Park

8601 Adelphi Road
College Park, MD 20740
(301) 713-6800

Admission: Free

http://www.archives.gov/facilities/md/archives2.html/

National Building Museum

401 F Street NW
Washington, DC 20001
(202) 272-2448

Admission: Free

Metro: Red Line, Judiciary Square
http://www.nbm.org/

National Gallery of Art

7th Street & Constitution Avenue NW
Washington, DC 20565
(202) 737-4215

Admission: Free

Metro: Red Line, Judiciary Square
http://www.nga.gov/

**National Geographic Museum
at Explorers Hall**

17th & M Streets NW
Washington, DC 20036
(202) 857-7588

Admission: Free

Metro: Red Line, Farragut North
http://www.nationalgeographic.com/museum/

National Museum of the American Indian

4th Street and Independence Avenue, SW
Washington, D.C. 20560
202-633-1000

Admission: Free

Metro: All lines except Red, L'Enfant Plaza
http://www.nmai.si.edu/

**National Museum of American
Jewish Military History**

1811 R Street NW
Washington, DC 20009
(202) 265-6280

Admission: Free

Metro: Red Line, Dupont Circle
http://www.nmajmh.org/

**National Museum of Health & Medicine
Walter Reed Medical Center**

6900 Georgia Avenue NW
Building 54
Washington, DC 20306
(202) 782-2200

Admission: Free

Metro: Red Line, Takoma
http://www.nmhm.washingtondc.museum/

National Museum of Women in the Arts

1250 New York Avenue NW
Washington, DC 20005
(202) 783-5000

Admission: Free

Metro: Blue/Orange/Red Lines, Metro Center
http://www.nmwa.org/

Octagon Museum

1799 New York Avenue NW
Washington, DC 20006
(202) 638-3221

Admission: Admission is charged.

During 2006, walk-in visitors will not be accommodated.

Metro: Red Line, Farragut North
http://www.archfoundation.org/octagon/

The Phillips Collection

1600 21st Street NW
Washington, DC 20009
(202) 387-2151

Admission: Admission to the permanent collection is free during the week.

Metro: Red Line, Dupont Circle
http://www.phillipscollection.org/

Smithsonian • American Art Museum

8th & F Streets NW

Washington, DC 20560

Closed for renovations until 2006.

Comments: In the same building as the Portrait Gallery.

<http://americanart.si.edu/>

Smithsonian • Anacostia Museum

1901 Fort Place SE

Washington, DC 20020

(202) 633-4820

Comments: Has one of the city's finest collections of African American art.

Admission: By appointment only

Metro: Green Line, Anacostia, then W2 or W3 bus

<http://anacostia.si.edu/>

Smithsonian • Arthur M. Sackler Gallery

1050 Independence Avenue SW

Washington, DC 20013

(202) 633-4880

Admission: Free

Metro: Blue/Orange Lines, Smithsonian

Comments: Specializes in Asian art.

<http://www.asia.si.edu/>

Smithsonian • Arts & Industries Building

900 Jefferson Drive SW

Washington, DC 20013

(202) 633-1000

Closed for renovations

Metro: Blue/Orange Lines, Smithsonian

<http://www.si.edu/ai/>

Smithsonian • Freer Gallery of Art

12th Street & Jefferson Drive SW

Washington, DC 20013

(202) 633-4880

Admission: Free

Metro: Blue/Orange Lines, Smithsonian

Comments: This building, physically connected to the Sackler Gallery, specializes in Japanese artifacts.

<http://www.asia.si.edu/>

Smithsonian • Hirshhorn Museum

& Sculpture Garden

7th Street & Independence Avenue SW

Washington, DC 20013

(202) 633-4674

Admission: Free

Metro: Blue/Orange Lines, Smithsonian

Comments: An impressive collection of sculpture, both classic and modern, plus contemporary art.

<http://hirshhorn.si.edu/>

Smithsonian • National Air & Space Museum

4th Street & Independence Avenue SW

Washington, DC 20560

(202) 633-1000

Admission: Free

Metro: Blue/Orange Lines, Smithsonian

Comments: Spaceships and aircraft plus an IMAX Theater.

<http://www.nasm.si.edu/>

Smithsonian • National Museum of African Art

950 Independence Avenue SW

Washington, DC 20560

(202) 633-4600

Admission: Free

Metro: Blue/Orange Lines, Smithsonian

Comments: Ancient African Art to 20th century artifacts.

<http://www.nmafa.si.edu/>

Smithsonian • National Museum of American History

14th Street & Constitution Avenue NW

Washington, DC 20560

(202) 633-1000

Hours: 10 a.m. to 5:30 p.m.

Admission: Free

Metro: Blue/Orange Lines, Smithsonian

Comments: Items from 200 years of American existence. Railroad engines to computers to WWII and much more, including the art of each period.

<http://americanhistory.si.edu/>

Smithsonian • National Museum of Natural History

10th Street & Constitution Avenue NW
Washington, DC 20560
(202) 633-1000
Admission: Free
Metro: Blue/Orange Lines, Smithsonian
<http://www.mnh.si.edu/>

Smithsonian • National Portrait Gallery

8th & F Streets NW
Washington, DC 20560
(202) 275-1738
Closed for renovations until 2006.
Comments: In the same building as the American Art Museum.
<http://www.npg.si.edu/>

Smithsonian • National Postal Museum

2 Massachusetts Avenue NE
Washington, DC 20002
(202) 633-9849
Admission: Free
Metro: Red Line, Union Station
Comments: Washington's first post office, now an active historic site providing exhibits, lectures, and special family events.
<http://www.npm.si.edu/>

Smithsonian • Renwick Gallery

17th Street & Pennsylvania Avenue NW
Washington, DC 20006
(202) 633-2850
Admission: Free
Metro: Red Line, Farragut North
Comments: A collection of Oriental and contemporary American art, crafts and artifacts.
<http://americanart.si.edu/renwick/>

Sumner School Museum & Archives

1201 17th Street NW
Washington, DC 20036
(202) 442-6060
Admission: Free
Metro: Red Line, Farragut North
<http://www.cr.nps.gov/nr/travel/wash/dc58.htm/>

The Textile Museum

2320 S Street NW
Washington, DC 20008
(202) 667-0441
Admission: Free (suggested contribution of \$5)
Metro: Red Line, Dupont Circle
<http://www.textilemuseum.org/>

United States

Holocaust Memorial Museum

100 Raoul Wallenberg Place SW
(14th Street & Independence Avenue)
Washington, DC 20024
(202) 488-0400
Admission: Free, but requires advance time-entry pass.
Metro: Blue/Orange Lines, Smithsonian
<http://www.ushmm.org/>

United States Navy Memorial

701 Pennsylvania Avenue NW
Suite 123
Washington, DC 20004
(202) 737-2300
Admission: Free
Metro: Green/Yellow Lines, Archives
<http://www.lonesailor.org/>

National/State Parks and Historic Sites

Ford's Theater National Historic Site

511 10th Street NW
Washington, DC 20004
(202) 347-4833 (Box Office)
(202) 426-6924 (Info)

Admission: Free. Admission to theatrical performances is by paid ticket only

Comments: The theater where President Abraham Lincoln was shot and the house across the street where he died early the next day are preserved as Ford's Theater National Historic Site.

Metro: Blue/Orange/Red Lines, Metro Center, Green/Yellow/Red Lines, Gallery Place/Chinatown

Franklin Delano Roosevelt Memorial

1850 West Basin Drive SW
Washington, DC 20024
(202) 376-6704

Admission: Free

Metro: Blue/Orange Lines, Smithsonian

Frederick Douglass National Historic Site

1411 W Street SE
Washington, DC 20020
(202) 426-5961

Admission: Admission is charged.

Comments: Frederick Douglass lived at Cedar Hill from 1877 until 1895. His fully restored Victorian home on the heights overlooking Anacostia offers a panoramic view of the U.S. Capitol, the Washington Monument, and the city of Washington.

Metro: Green Line, Anacostia;
B-5 bus (Mt. Rainier)

Great Falls Park

Potomac, Maryland
(301) 299-3613

Admission: Admission is charged.

Comments: About 15 miles from the Mall, at the end of MacArthur Boulevard, are the Great Falls of the Potomac. The restored 19th century tavern was an important stopping point on the C&O Canal and is now a museum. Woodland paths and picnic areas are further features of the park, which is also a good starting point for hiking or cycling along the towpath.

Great Falls Park, Virginia

9200 Old Dominion Drive
(703) 285-2965

Admission: Admission is charged.

Comments: Excellent views of the cascading Potomac. The park has a snack bar, restrooms, visitor center, picnic facilities, and hiking trails. Fishing is permitted, but swimming and wading are not.

Korean War Veterans Memorial

Independence Avenue at the
Lincoln Memorial
Washington, DC
(202) 426-6841

Admission: Free. Permits are required for special events and First Amendment activities.

Metro: Blue/Orange Lines, Foggy Bottom

Lincoln Memorial

West Potomac Park at 23rd Street NW
Washington, DC
(202) 426-6841

Metro: Blue/Orange Lines, Foggy Bottom

**Mary McLeod Bethune Council House
National Historic Site**

1318 Vermont Avenue NW
Washington, DC 20005
(202) 673-2402

Admission: Free

Metro: Blue/Orange Lines,
McPherson Square

Comments: The Site houses the
Bethune Museum and Archives, Inc.,
and is dedicated to the collection,
preservation, and interpretation of
African American Women's history.

**National Aquarium in
Baltimore, Maryland**

Pier 3, 501 East Pratt Street
(410) 576-3800

Admission: Admission is charged.

Comments: Docked nearby is the
lightship Chesapeake.

National Mall

Washington, DC

Admission: Free. Permits are required
for special events and First Amend-
ment activities.

Metro: Blue/Orange Lines, Smithsonian

Comments: The mall extends from the
Capitol to the Washington Monument.
Footpaths, bikeways, information and
map kiosks, and refreshment stands
adorn the mall. Bordering the Mall are
the Department of Agriculture, the
National Gallery of Art, and many of
the Smithsonian Institution museums:
Freer Gallery, Sackler Gallery, African Art,
Arts and Industries, Hirshhorn Museum
and Sculpture Garden, Air and Space,
American History, and the central
Smithsonian Institution building.

National Zoo

The Zoo is located in northwest Washington,
DC, at 3001 Connecticut Avenue.

It can be reached by:

Metro Red Line, Woodley Park/Zoo
or Cleveland Park

Bus L1 and L2 buses at the
Connecticut Avenue entrance;
H2 and H4 buses at Harvard Street.

Car Parking is very limited.
From May to September, lots may
be filled by 10:30 a.m.
Parking fee is calculated by the hour.

(202) 673-4800 General Information

Recording

(202) 673-4717 Information Desk

(202) 673-4731 Zoo Park Police (In stormy
weather, call here to see if the zoo is open.)

Rock Creek Park

(202) 895-6000

Admission: Free. Rock Creek Horse Centre
on Glover Road offers horse rentals and
riding instruction. There is an 18-hole golf
course with golf cart and club rental at 16th
and Rittenhouse Streets. Reservations
are required for the tennis courts.

Comments: Established in 1890, Rock
Creek Park offers 29 miles of hiking trails,
11 miles of bridle trails, horse rentals, tennis
courts, athletic fields, and dozens of picnic
areas. The Rock Creek Nature Center
gives guided nature walks daily and has
nature exhibits and planetarium shows.
Demonstrations at Pierce Mill illustrate
the working of a 19th century gristmill.
Tours are given of the Old Stone House,
the oldest dwelling in Washington.

**Sewall–Belmont House
National Historic Site**

144 Constitution Avenue NE
Washington, DC 20002
(202) 546-1210

Admission: Free

Metro: Red Line, Union Station

Comments: The oldest house on Capitol Hill.

Shenandoah National Park, Virginia

80 miles southwest of Washington
via I-66 and US 340 or via I-66
and US 211

(540) 999-2243 or (540) 999-3500

Admission: Admission is charged.

Comments: Skyline Drive threads for 105 miles through the Blue Ridge Mountains. The park has campgrounds, mountain cottages, lodges, fishing, horse rentals, picnic spots, 94 miles of the Appalachian Trail, and 200 miles of park trails.

Theodore Roosevelt Island

Washington, DC
(703) 289-2500

Metro: Blue/Orange Lines, Rosslyn

The parking area is accessible from the northbound lane of the George Washington Memorial Parkway on the Virginia side of the Potomac River. A footbridge connects the island to the Virginia shore. The island is also accessible to pedestrians via the Metro station at Rosslyn and a 20-minute walk following city streets to the Key Bridge, where the Mount Vernon Trail begins. Follow the trail to the island entrance.

Admission: Free. Fishing permits are required for persons older than 16. Vehicles are not permitted on the island.

Thomas Jefferson Memorial

Tidal Basin, South End
15th Street SW
Washington, DC
(202) 426-6841

Admission: Free. Permits are required for special events and First Amendment activities.

Vietnam Veterans Memorial

Constitution Avenue & Henry Bacon Drive NW
Washington, DC 20001
(202) 634-1568

Admission: Free. Permits are required for special events and First Amendment activities.

Metro: Blue/Orange Lines, Foggy Bottom

Comments: The Memorial also includes the Three Servicemen Statue and the Vietnam Women's Memorial.

Washington Monument

Constitution Avenue at 15th Street NW
Washington, DC 20001

(Inclined pathways lead from the parking lot and 15th Street to the entrance and elevator.)
(202) 426-6841

Comments: An elevator takes visitors to the 500-foot level. Return is by elevator as well. If you wish to walk down the 898 steps, you must make arrangements beforehand with the staff.

White House

1600 Pennsylvania Avenue NW
Washington, DC 20500
(202) 456-7041

Tours of the White House Executive Residence are available for groups of 10 or more. Requests must be submitted to your Member of Congress. Visit <http://www.whitehouse.gov/history/tours/> or call the number above for updates.

Calendar of Events

May 2006

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19 8:30 am-11:00 am Bldg. 49, Rm. 2A46 Hands-On Animal: Mouse 8:30 am-11:00 am Bldg. 49, Rm. 2A46 Hands-On Animal: Rat	20
21	22 Poster Day registration begins	23 10:00 am-12:00 noon Lipsett Amphitheater Working Safely with HIV and Other Bloodborne Pathogens	24 9:00 am-10:30 am Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21) 2:00 pm Bldg. 10, Library Info Desk Library Orientation	25 9:00 am-12:00 noon Lipsett Amphitheater Laboratory Safety at the NIH (ages 21 and older)	26	27
28	29 MEMORIAL DAY	30	31 9:00 am-10:30 am Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21) 2:00 pm Bldg. 10, Library Info Desk Library Orientation			

June 2006

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				9:00 am-10:30 am Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21)	1	2
4	5	6 10:00 am-12:00 noon Masur Auditorium Working Safely with HIV and Other Bloodborne Pathogens 2:00 pm-3:30 pm Masur Auditorium Student Laboratory Safety Training (ages 16-21)	7 9:00 am-10:30 am Masur Auditorium Student Laboratory Safety Training (ages 16-21) 2:00 pm Bldg. 10, Library Info Desk Library Orientation	8 9:00 am-12:00 noon Masur Auditorium Laboratory Safety at the NIH (ages 21 and older) 1:00 pm-4:00 pm Masur Auditorium Radiation Safety in the Lab	9	10
11	12 9:00 am-10:30 am Bldg. 50, Lobby Level Conference Room Guidelines for Animal Users	13 12:00 noon-1:00 pm Lipsett Amphitheater *SLS: Frontiers in Fluorescence Microscopy 3:30 pm-5:00 pm Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21)	14 9:00 am-10:30 am Masur Auditorium Student Laboratory Safety Training (ages 16-21) 2:00 pm Bldg. 10, Library Info Desk Library Orientation	15	16 8:30 am-11:00 am Bldg. 49, Rm. 2A46 Hands-On Animal: Mouse	17
18	19	20 10:00 am-12:00 noon Masur Auditorium Working Safely with HIV and Other Bloodborne Pathogens 12:00 noon-1:00 pm Lipsett Amphitheater *SLS: Recombinant Immunotoxins for the Treatment of Hematologic Malignancies 2:00 pm-3:30 pm Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21)	21 9:00 am-10:30 am Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21) 2:00 pm Bldg. 10, Library Info Desk Library Orientation	22 8:30 am-11:30 am Bldg. 50, Rm. 1227 Preparing for the MCAT 9:00 am-12:00 noon Masur Auditorium Laboratory Safety at the NIH (ages 21 and older) 2:00 pm-5:00 pm Masur Auditorium Radiation Safety in the Lab	23	24
25	26	27 12:00 noon-1:00 pm Lipsett Amphitheater *SLS: Vaccines for Global Respiratory Threats 2:00 pm-3:30 pm Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21)	28 9:00 am-10:30 am Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21) 2:00 pm Bldg. 10, Library Info Desk Library Orientation	29 8:30 am-11:30 am Bldg. 50, Rm. 1227 Preparing for the MCAT 9:00 am-10:30 am Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21) 12:00 noon-1:00 pm Bldg. 50, Room 1227 *BBLS: NIH-supported Programs for Undergraduates and Recent College Graduates	30	

* SLS: Summer Lecture Series
BBLS: Brown Bag Lunch Series

July 2006

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4 INDEPENDENCE DAY	5 2:00 pm Bldg. 10, Library Info Desk Library Orientation	6 9:00 am-11:30 am Bldg. 50, Rm. 1227 Preparing for the GRE 12:00 noon-1:00 pm Bldg. 50, Rm. 1227 *BBLs: Training Opportunities for Medical and Dental Students 5:00 pm Poster Day registration ends	7	8
9	10 5:00 pm Preceptor poster approval ends	11 9:00 am-12:00 noon Masur Auditorium Laboratory Safety at the NIH (ages 21 and older) 12:00 noon-1:00 pm Lipsett Amphitheater *SLS: The Making of Skeletons 1:00 pm Building 10, Room B1L408 Graduate Medical Education, Loan Repayment Programs 1:00 pm-4:00 pm Masur Auditorium Radiation Safety in the Lab	12 10:00 am-12:00 noon Masur Auditorium Working Safely with HIV and Other Bloodborne Pathogens 1:00 pm-2:30 pm Masur Auditorium Student Laboratory Safety Training (ages 16-21) 2:00 pm Bldg. 10, Library Info Desk Library Orientation 7:00 pm AFI Silver Theatre and Cultural Center Science in the Cinema	13 9:00 am-11:30 am Bldg. 50/Room 1227 Preparing for the GRE 12:00 noon-1:00 pm Building 50, Room 1227 *BBLs: Graduate School at NIH 2:00 pm-3:30 pm Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21)	14 8:30 am-11:00 am Bldg 49, Room 2A46 Hands On Animal: Mouse 8:30 am-11:00 am Bldg 49, Room 2A46 Hands On Animal: Rat	15
16	17 9:00 am-10:30 am Bldg. 50, Lobby Level Conference Room Guidelines for Animal Users	18 12:00 noon-1:00 pm Lipsett Amphitheater *SLS: Charting Cellular Landscapes w/ 3D Electron Microscopy 1:00 pm Masur Auditorium NIH Clinical Research Training Program 2:00 pm-3:30 pm Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21)	19 1:00 pm-2:30 pm Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21) 7:00 pm AFI Silver Theatre and Cultural Center Science in the Cinema	20 12:00 noon-1:00 pm Bldg 50, Room 1227 *BBLs: Preparing for Careers in Biomedical Research 2:00 pm-3:30 pm Masur Auditorium Student Laboratory Safety Training (ages 16-21)	21	22
23 30	24 31	25 10:00 am-12:00 noon Masur Auditorium Working Safely with HIV and Other Bloodborne Pathogens 12:00 noon-1:00 pm Lipsett Amphitheater *SLS: Meet the Neuregulins	26 12:00 noon Bldg 60, Lecture Hall/Chapel Howard Hughes Medical Institute 1:00 pm-2:30 pm Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21) 7:00 pm AFI Silver Theatre and Cultural Center Science in the Cinema	27 9:00 am-12:00 noon Masur Auditorium Laboratory Safety at the NIH (ages 21 and older) 1:00 pm-4:00 pm Masur Auditorium Radiation Safety in the Lab	28	29

August 2006

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 1:00 pm-5:00 pm Gerontology Research Center Lobby, Baltimore NIA/NIDA Student Poster Session	2 9:00 am-10:30 am Lipsett Amphitheater Student Laboratory Safety Training (ages 16-21) 3:00 pm-5:00 pm NIH Clinical Center Poster Set-up 7:00 pm AFI Silver Theatre and Cultural Center Science in the Cinema	3 NIH Clinical Center Poster Day 9:00 am-12:00 noon Building 21, Room 237 Radiation Safety in the Lab 4:00 pm-6:00 pm Visitor Information Center, B-1 level, Building 10 NICHD Summer Program Poster Presentations	4	5
6	7	8 7:00 pm AFI Silver Theatre and Cultural Center Science in the Cinema	9	10	11	12
13	14	15 7:00 pm AFI Silver Theatre and Cultural Center Science in the Cinema	16	17 9:00 am-12:00 noon Building 21, Room 237 Radiation Safety in the Lab	18	19
20	21 9:00 am-12:00 noon Masur Auditorium Laboratory Safety at the NIH (ages 21 and older)	22	23	24 10:00 am-12:00 noon Lipsett Amphitheater Working Safely with HIV and Other Bloodborne Pathogens	25	26
27	28	29	30	31		

www.training.nih.gov